Gas Laws Lab Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Egg in a Bottle

1. Obtain a glass vase, 1 hard boiled egg, ½ piece of newspaper
2. Peel the egg and place it small side down in the neck of the vase, making sure it is too large to enter the vase.
3. Remove the egg. Loosely roll the newspaper and have Mrs. Kunde light it. Place it in the vase and quickly place the egg small side down in the neck of the vase again.
4. Describe what happens \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Did your egg jump slightly before going into the vase? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Why do you think it did that? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Describe your hypothesis of why the egg went into the vase. Use the properties of gasses (pressure, volume, amount of gas particles, or temperature) to explain your ideas.

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1. Now that the egg is in the vase, how can you remove it fully intact? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Temperature and Balloons

1. Obtain a balloon. Place some ice and a little water in a plastic container.
2. Blow up your balloon and tie it. Use a string to measure the circumference of the balloon and mark it on the line \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Place the balloon in the ice water and wait exactly 4 minutes. You can try covering it with a towel to keep it cold. Remove the balloon and quickly measure the circumference of the balloon again and mark it on the line \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Did the size change? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Which gas law does this demonstrate? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_